

WHAT IS CLAIMED IS:

- 1 1. A rotor for electrical equipment, said rotor having at least one pair of poles
2 and comprising
3 a winding encircling each of said poles; and
4 at least one element fabricated of heat conductive material separate from
5 said pole and said winding and disposed between at least one of said poles and
6 the winding encircling this pole.
- 1 2. The rotor of claim 1 wherein each element has a first surface adjacent to
said winding and formed so as to be in substantial contact therewith.
3. The rotor of claim 2 wherein each element has a second surface adjacent
to said pole and formed to be in substantial contact therewith.
4. The rotor of claim 1 wherein each element has a first surface adjacent to
said pole and formed so as to be in substantial contact therewith.
5. The rotor of claim 4 wherein each element has a second surface adjacent
2 to said winding and formed so as to be in substantial contact therewith.
- 1 6. The rotor of claim 1 wherein each element includes at least one
2 passageway for the conduction of a cooling medium therethrough.
- 1 7. The rotor of claim 6 wherein said rotor includes at least one manifold for
2 receiving a cooling medium.

- 1 8. The rotor of claim 7 further including at least one coupling member for
2 transporting the cooling medium from the manifold to each passageway.
- 1 9. The rotor of claim 8 wherein said rotor includes a shaft having a cooling
2 medium conducting passageway therethrough.
- 1 10. The rotor of claim 1 wherein said winding is fabricated of wire having a
2 rectangular cross section.
- 1 11. The rotor of claim 1 wherein said element is a unitary member.
- 1 12. The rotor of claim 1 wherein said element includes a pair of mating
members.
- 1 13. Electrical equipment comprising
2 a housing;
3 a stationary winding; and
4 a rotor, said rotor including at least one pair of poles with a winding encircling
5 each pole; and
6 at least one element fabricated of heat conductive material separate from
7 said pole and said winding and disposed between at least one of said poles and
8 the winding encircling this pole.
- 1 14. The equipment of claim 13 wherein said equipment is an alternator.
- 1 15. The equipment of claim 13 wherein said equipment is a generator.
- 1 16. The equipment of claim 13 wherein said equipment is a motor.

- 1 17. A method of cooling a rotor for electrical equipment, said rotor having at
- 2 least one pair of poles and a winding encircling each pole, said method
- 3 comprising the steps of
- 4 providing an element fabricated of heat conductive material; and
- 5 disposing said element between each rotor pole and the winding
- 6 encircling that pole.

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